

ABSTRACT

The present invention provides for efficient control signaling in a downlink control channel that specifies the following information: MAC ID, HARQ channel ID, redundancy version, transport format, transport block size, new/continue data indicator and pilot boost/deboost. Optionally, the downlink control channel may also specify whether transmit time interval may be varied or fixed. Advantageously, this information may be supplied in a subframe that may be organized so as to specify in the first part of the frame information that can be used immediately by the remote terminal and to specify in a later part of the frame information that does not have to be used immediately. In particular, information such as the transport format, transport block size and new/continue data indicator may be advantageously specified in the first part of the frame and information such as the pilot boost/deboost may be specified in a later part of the same frame.